

JP 2002105351

PATENT ABSTRACTS OF JAPAN

The computer generated English translation of this patent is also available.

(11)Publication number : **2002-105351**

(43)Date of publication of application : **10.04.2002**

(51)Int.Cl.

C09B 67/48

B41M 5/00

B41M 5/30

C09B 25/00

C09D 11/00

G02B 5/20

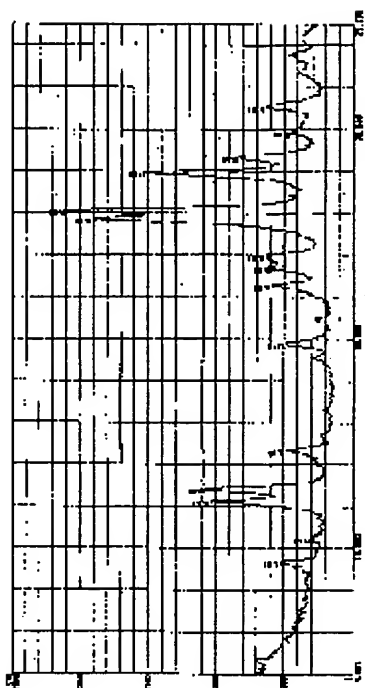
G02B 5/22

G03G 9/09

(21)Application number : **2000-296917** (71)Applicant : **DAINICHISEIKA COLOR & CHEM MFG CO LTD**

(22)Date of filing : **28.09.2000** (72)Inventor : **AOBA MASAHIKO
AOKI KAZUTAKA
SOGA TAKAYUKI
NAKAGAWA HIROSHI
SATO HIROFUMI
TAKAMI HISANORI**

(54) **QUINOPHTHALONE(C.I. PIGMENT YELLOW 138) PIGMENT AND COLORED COMPOSITION CONTAINING THE SAME**



(57)Abstract:

PROBLEM TO BE SOLVED: To provide a quinophthalone(C.I. Pigment Yellow 138) pigment having good transparency, vividness and clearness and applicable to color filter inks or ink-jet inks.

SOLUTION: This B-type quinophthalone(C.I. Pigment Yellow 138) pigment is characterized by having X-ray (CuK α ray) diffraction peaks at Bragg angles ($2\theta \pm 0.2^\circ$) of 9.4, 12.2, 12.8, 14.6, 19.8, 22.5, 25.7, 26.1, 27.9, 28.7 and 31.1 degrees.

New quinophthalone pigment (C.I. Pigment Yellow 138) with specified X-ray diffraction peaks is useful for e.g. color filters and image recording
Patent Assignee: DAINICHISEIKA COLOR & CHEM MFG CO LTD

| Patent Family | | | | | | | |
|---------------|------|----------|--------------------|------|----------|--------|------|
| Patent Number | Kind | Date | Application Number | Kind | Date | Week | Type |
| JP 2002105351 | A | 20020410 | JP 2000296917 | A | 20000928 | 200266 | B |

Priority Applications (Number Kind Date): JP 2000296917 A (20000928)

| Patent Details | | | | | |
|----------------|------|----------|------|-------------|--------------|
| Patent | Kind | Language | Page | Main IPC | Filing Notes |
| JP 2002105351 | A | | 8 | C09B-067/48 | |

Abstract:

JP 2002105351 A

NOVELTY A quinophthalone pigment (C.I. Pigment Yellow 138) with X-ray (CuKalpha-ray) diffraction peaks at Bragg's angles (2theta plus or minus 0.2 degrees) of 9.4, 12.2, 12.8, 14.6, 19.8, 22.5, 25.7, 26.1, 27.9, 28.7 and 31.1 degrees is new.

DETAILED DESCRIPTION An INDEPENDENT CLAIM is also included for color compositions containing at least the quinophthalone pigment.

USE The use of the quinophthalone pigment for color compositions for color filters and image recording is claimed. The quinophthalone pigment is also useful for a coloring pigment for coatings, printing inks and plastics.

ADVANTAGE The quinophthalone pigment has excellent transparency, saturation and sharpness. Greenish yellow images and filters using the quinophthalone pigment have high transparency, saturation, sharpness and color fastness to heat, weather, solvent and chemicals.

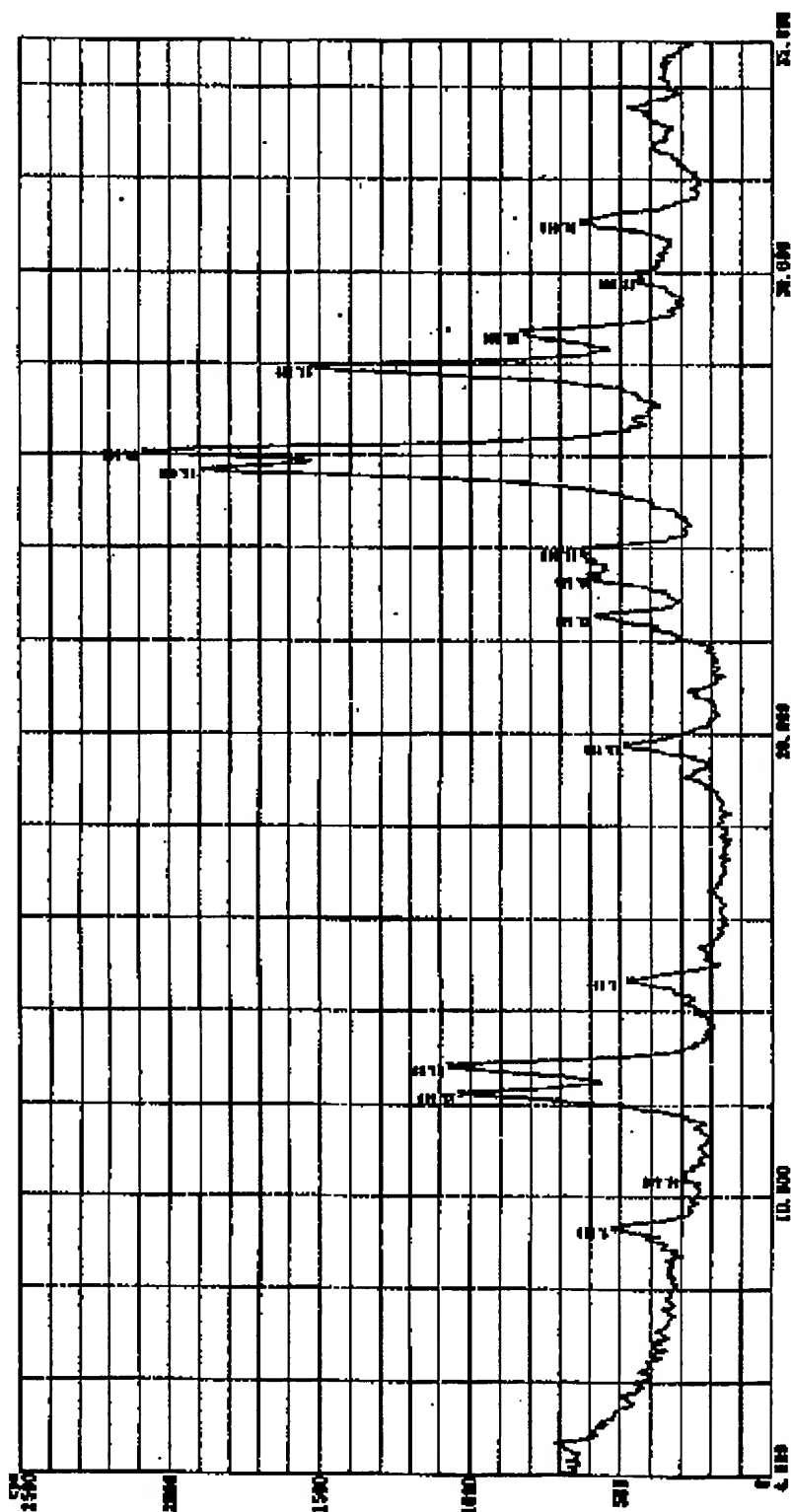
DESCRIPTION OF DRAWING(S) Figure 1 shows the x-ray diffraction pattern for the pigment

pp; 8 DwgNo 1/3

Technology Focus:

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Quinophthalone Pigment: The quinophthalone pigment preferably has a BET specific surface area of 70-150 m²/g and/or an average primary particle diameter of less than or equaling 0.04 micron.

Preparation: Dry crude quinophthalone pigment is ground mechanically and the ground product is wet-ground to give the quinophthalone pigment.



20